

Table 1. Elemental Composition and Transitions Monitored for Diphenylamine Derivatives Analyzed by GC-MS/MS.

Compounds	CAS No.	Elemental composition	Molecular weight	Retention time (min)	Transitions (m/z)	Collision energy (eV)
¹³ C ₁₂ DPA	-	¹³ C ₁₂ H ₁₁ N	181	7.712	181.1→180.3, 179.3	30
DPA	122-39-4	C ₁₂ H ₁₁ N	169	7.712	169.1→168.1, 167.1	20
S-DPA1	-	C ₂₀ H ₂₀ N	273	12.674	273.1→180.1, 258.2	20
TO-DPA	-	C ₂₀ H ₂₇ N	281	12.777	210.1→195.1, 180.1	20
S-DPA 2	-	C ₂₀ H ₂₀ N	273	15.556	273.1→258.2, 166.1	25
TOS-DPA 1	-	C ₂₈ H ₃₅ N	385	18.348	314.1→105.1, 206.1	25
TOS-DPA 2	-	C ₂₈ H ₃₅ N	385	19.437	314.1→206.1, 105.1	35
DTO-DPA	-	C ₂₈ H ₄₃ N	393	19.799	322.2→251.2, 105.1	20
TOS-DPA 3	-	C ₂₈ H ₃₅ N	385	22.337	314.1→105.1, 284.2	25
DTOS-DPA	-	C ₃₆ H ₅₁ N	497	24.288	426.2→355.2, 340.2	20

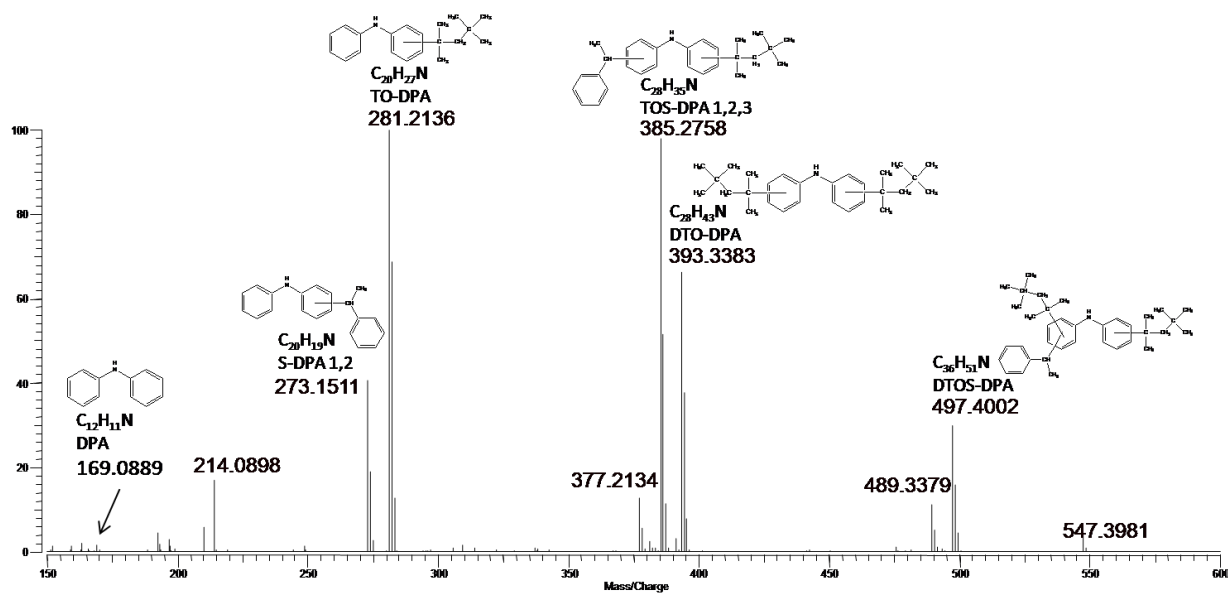


Fig 1. Mass spectrum of FT-ICR-MS